In the Claims:

This listing of claims replaces all prior versions, and listings, of claims in the application.

1. (Currently Amended) A method of compensating for differences between an applied DC link voltage and a predetermined DC link voltage in an electrical machine having comprising a rotor, at least one phase winding and a controller arranged configured to energise energize the phase winding in dependence on [[the]] an angular position of the rotor,

the method comprising: the steps of

measuring the applied DC link voltage and

applying a predetermined correction to the angular position of energisation energization of the phase winding in dependence on the value of the applied DC link voltage.

- 2. (Currently Amended) A method as claimed in claim 1, in which the controller includes a memory arranged to store storing a predetermined relationship between the applied DC link voltage and the correction to the angular position.
- 3. (Original) A method as claimed in claim 1 or 2, in which the applied DC link voltage is measured periodically.
- 4. (Currently Amended) A method as claimed in any preceding claim 1 or 2, in which the applied DC link voltage is measured when the machine is started.
- 5. (Currently Amended) A method as claimed in any preceding claim 1 or 2, further comprising the step of measuring the applied DC link voltage when the machine is connected to a power supply but before the machine is switched on, the method further comprising the step of and applying a predetermined correction to the angular position of energisation energization of the phase winding on starting the machine, in dependence on the value of the measured DC link voltage.

- 6. (Currently Amended) A method as claimed in any preceding claim 1 or 2, further comprising the step of deriving an average value for the applied DC link voltage at the or each measurement.
- 7. (Original) A method as claimed in claim 6, in which the step of deriving the average value includes applying a filter to the applied DC link voltage.
- 8. (Currently Amended) A method of controlling an electrical machine, including the method of compensating for differences between the applied DC link voltage and a predetermined DC link voltage as claimed in any preceding claim 1 or 2.
- 9. (Currently Amended) A controller for an electrical machine comprising a rotor and at least one phase winding, the controller being arranged configured to energise energize the phase winding in dependence on [[the]] an angular position of the rotor, the controller further being arranged and to apply, on application of a DC link voltage, a predetermined correction to the angular position of energisation energization of the phase winding in dependence on the value of the applied DC link voltage.
- 10. (Currently Amended) A controller as claimed in claim 9, further comprising a memory arranged to store storing a predetermined relationship between the applied DC link voltage and the correction to the angular position.
- 11. (Currently Amended) A controller machine as claimed in claim 10, in which the memory further includes comprises a predetermined advance angle map representing the energisation energization of the phase winding with respect to the angular position of the rotor over a range of rotor speeds
- 12. (Currently Amended) A controller as claimed <u>in</u> claim 11, in which the memory further comprises an angle correction factor to be applied to a predetermined portion of the predetermined advance angle map, which correction factor relates to the difference between the measured input power and a predetermined power.

- 13. (Currently Amended) An electrical machine incorporating a controller as claimed in elaim any one of claims 9 to 12.
- 14. (Original) An electrical machine as claimed in claim 13, in the form of a switched reluctance motor.
- 15. (Currently Amended) A cleaning appliance incorporating an electrical machine as claimed in claim 13 or 14.
 - 16-17. (Canceled)
- 18. (New) A method as claimed in claim 5, further comprising deriving an average value for the applied DC link voltage at the measurement.
- 19. (New) A method of controlling an electrical machine, including the method of compensating for differences between the applied DC link voltage and a predetermined DC link voltage as claimed in claim 5.
- 20. (New) A cleaning appliance comprising the switched reluctance motor of claim 14.